

forming liposomes in an aqueous medium including a first solution having a selected pH, which solution is substantially impermeable through the vesicle to give a liposome-containing aqueous medium in which the solution is present in the internal and external liposome phases;

adding to the aqueous medium a charged chemical species; and

adding to the external liposome phase a second solution having a selected pH which is either lower or higher than the pH of the first solution,

wherein when the pH of the second solution is lower (more acidic) than that of the first solution, the charged chemical species has negatively charged ions, and when the pH of the second solution is higher (more basic) than that of the first solution, the charged chemical species has positively charged ions.

28. The method of Claim 27, wherein the second solution is between 0.5 and 3 pH units lower or higher than the pH of the first solution.

29. The method of Claim 27, wherein the second solution has a pH lower than that of the first solution and the charged chemical species has negatively charged ions.

30. The method of Claim 27, wherein the second solution has a pH higher than that of the first solution and the charged chemical species has positively charged ions.

31. The method of Claim 27, wherein the aqueous medium containing the first solution used in forming the liposomes is buffered.

32. The method of Claim 27, wherein the second solution added to induce the charged chemical species to pass into the liposomes' internal aqueous phase is a component of a buffer.

33. The method of Claim 27, wherein the charged chemical species is a drug.

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34. The method of Claim 33, wherein the charged chemical species is a hydrophobic drug.

35. The method of Claim 34, wherein the hydrophobic drug is ellipticinium chloride, an antihelminthic, gentian violet, pyrvinium, pamoate, a cyanine dye, or pamaguine.

36. The method of Claim 33, wherein the drug is a drug for chemotherapy or immunosuppression, a membrane permeable peptide toxin or a hormone.

37. The method of Claim 33, wherein the drug is vincristine, doxorubicin, streptomycin, chloroquine, daunorubicin, methotrexate, daunomycin, penicillin, p-amino salicylic acid or a salicylic acid derivative.

38. The method of Claim 27, wherein the first solution of said aqueous medium having a selected pH has a pH less than 7.

39. The method of Claim 27, wherein the first solution of said aqueous medium having a selected pH has a pH of 7.

40. The method of Claim 27, wherein the first solution of said aqueous medium having a selected pH has a pH greater than 7.

41. The method of Claim 38, wherein the second solution having a selected pH has a pH greater than 7.

42. The method of Claim 39, wherein the second solution having a selected pH has a pH of greater than 7.

43. The method of Claim 39, wherein the second solution having a selected pH has a pH of less than 7.